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PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

AIRFRAME PLANT NO 18
KUYBYSHEV, USSR

DECLASS REVIEW by NIMA/DOD

CIA/PIR -75072

DATE JANUARY 1967
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IMAGERY ANALYSIS DIVISION

AIRFRAME PLANT NO 18 KUYBYSHEV, USSR

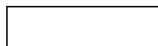


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INTRODUCTION

Kuybyshev Airframe Plant Lenin 18 is located in the eastern outskirts of Kuybyshev, USSR, at 53-12-35N 050-18-00E (Figure 1). Immediately adjacent to the plant on the northwest is Kuybyshev Airframe Plant Stalin 1 and adjacent to the northeast is Kuybyshev/Bezmyanka Airfield. The plant is both road and rail served. Approximately 10,300 linear feet of rail spurs and approximately 27,000 linear feet of hard-surface road averaging approximately 30 feet wide are within the plant area. Surrounding the plant is a probable wooden fence/masonry wall of approximately 13,300 linear feet.

The plant is a large, typical fabrication and assembly plant with the characteristic large, multilevel buildings with high-bay sections and monitored roofs. The major plant buildings are assembly and subassembly buildings, machine shops, workshops, forges/foundries, and various storage/support buildings. Figure 2 shows the plant as it appeared on [redacted] photography of [redacted] Figure 3 gives the plant layout. All item numbers are keyed to Figure 3 and Table 1.

The plant development, which took place over a period of more than 20 years, is illustrated in Figures 4-7.

PHOTOGRAPHIC CHRONOLOGY OF PLANT DEVELOPMENT

Plant 18 was first observed on 1942 and 1943 [redacted] shows Plants 1 and 18 to be mirror images. 1/ Construction on Plant 18 was begun in 1939. On the [redacted] photography, it was established in production. 2/ Based on photographic interpretation reports derived from the [redacted] there were approximately 1,800,000 square feet of covered floor area by [redacted] but no allowance was made for multistory buildings since the exact number of stories could not be determined. 3/ [redacted] photography of [redacted] (Figure 5) revealed a total of approximately 2,951,665 square feet of floorspace while [redacted] photography of [redacted] established the floorspace at 3,061,125 square feet. 4/ The greatest amount of growth occurred prior to the photography of [redacted]. Most of the major build-

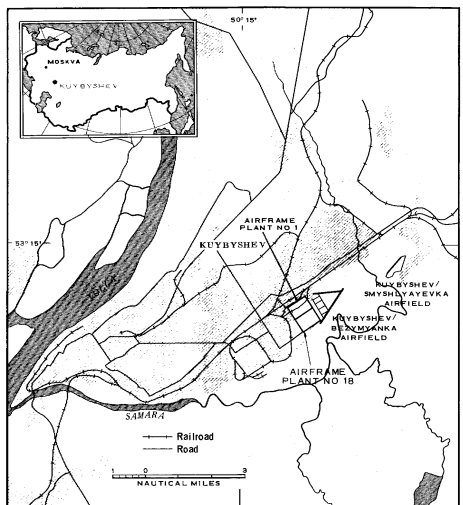


FIGURE 1. LOCATION MAP.

ings were initially constructed prior to 1943 (Figure 3).

The total plant floorspace, calculated from [redacted] photography, amounts to 3,983,110 square feet. The 1966 figure includes an allowance for the probable number of stories within each administration/engineering structure thereby increasing the reported square footage included in each of these structures. 1/

Between [redacted] the following buildings were completed within the plant area: a final assembly building (item 15), 2 machine shops/workshops (items 25 and 30), the administration/engineering buildings (items 5, 74-76), and various storage/support buildings (Figure 3). During this same period, the following buildings were expanded: a foundry (item 48), a forge/foundry (item 40), a transshipment warehouse (item 50), and the subassembly/final assembly building (item 44). The addition to the subassembly/final assembly building (item 44) actually extended into the area designated as being part of Airframe Plant No. 1. The square footage figure for this building includes this portion because it is nearly impossible to determine which parts of the building are used

for Plant 18 and which for Plant 1. There is a fence which extends over the roof the of subassembly/final assembly building (item 44) which is shown in Figure 3. Either a portion or the total area of this building is being used for subassembly/final assembly of materials for the adjoining final assembly building (item 15).

Since [redacted] expansion within the plant has included construction of the administration/engineering building (item 77) and various storage/support buildings (Figure 3). Expansion of various existing buildings has included: the subassembly/final assembly building (item 44), a subassembly building (item 45), 3 machine shops/workshops (items 17, 25, and 42), an administration building (item 73), a forge/foundry (item 40), and a warehouse (item 54).

Expansion of a warehouse (item 55) took place between [redacted] Work on the addition to a machine shop/workshop (item 17) began in [redacted] and had been completed by [redacted] A machine shop/workshop (item 25) was under construction in [redacted] when it was next observed. The additional administration building (item 77) was also constructed during this period.

Additions to items 40 and 45 were completed prior to [redacted] while the additions to item 73 were completed prior to [redacted] The small addition to item 44 was constructed between [redacted] when it appeared complete. Footings were observed for a new possible machine shop/workshop (item 61) in [redacted] As of [redacted] this building appeared to remain under construction. The machine shop/workshop is walled off from the plant area, but it is possible that the wall will be moved or removed as was done in the late stages of construction of similar buildings within the plant area.

AIRFIELD/FLYAWAY FIELD

Kuybyshev/Bezmyanka Airfield now appears to serve Plant 1 in a limited fashion while it is apparently used as a flyaway field for Plant 18. As illustrated in Figures 4-7, access to Plant 1 by way of taxiways and parking aprons is almost nonexistent. Plant 18, however, has various usable routes to the airfield.

The airfield has 2 serviceable concrete runways. The

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FIGURE 2. AIRFRAME PLANT NO 18, KUYBYSHEV, USSR.

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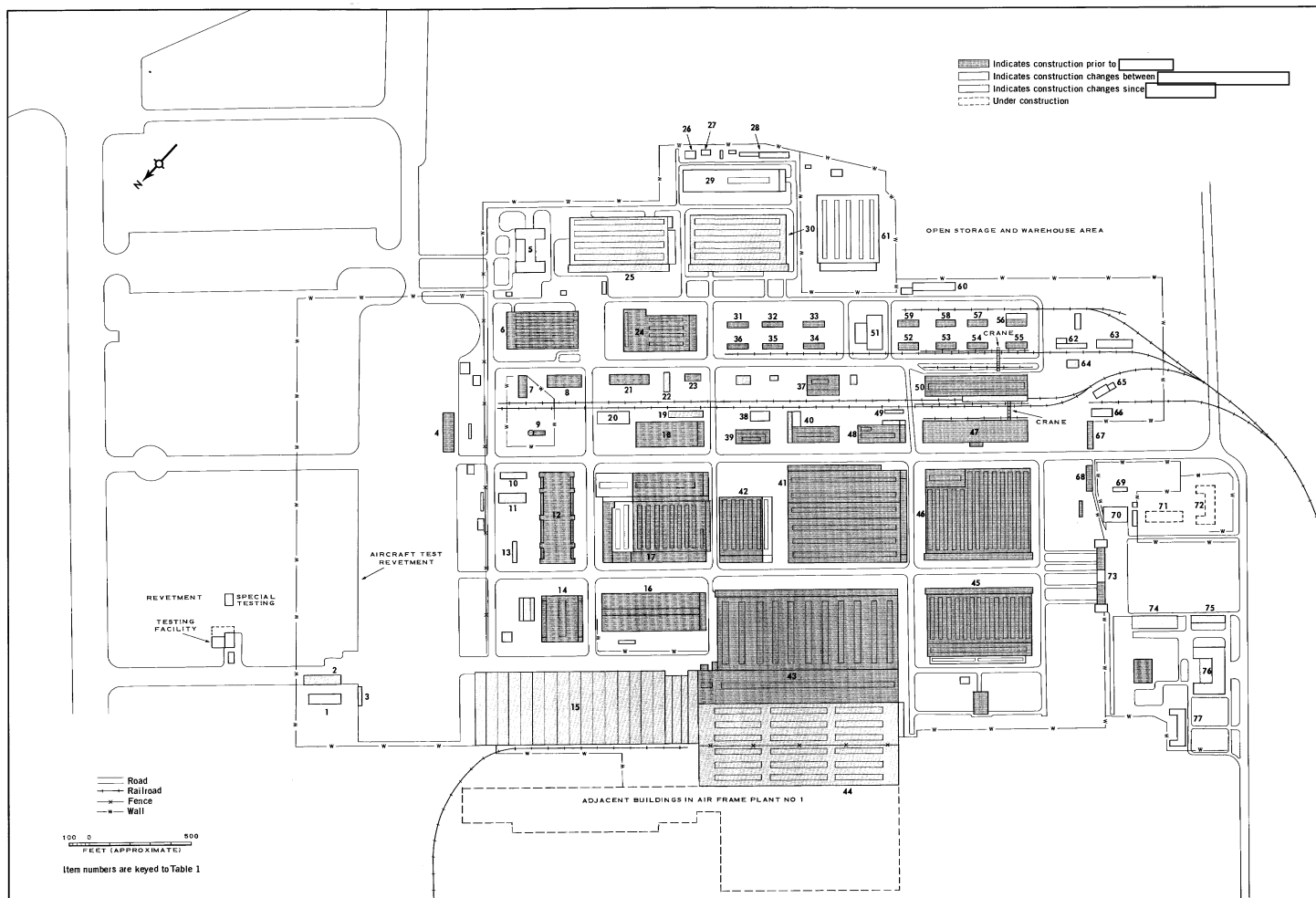
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FIGURE 3. LAYOUT OF AIRFRAME PLANT NO 18.

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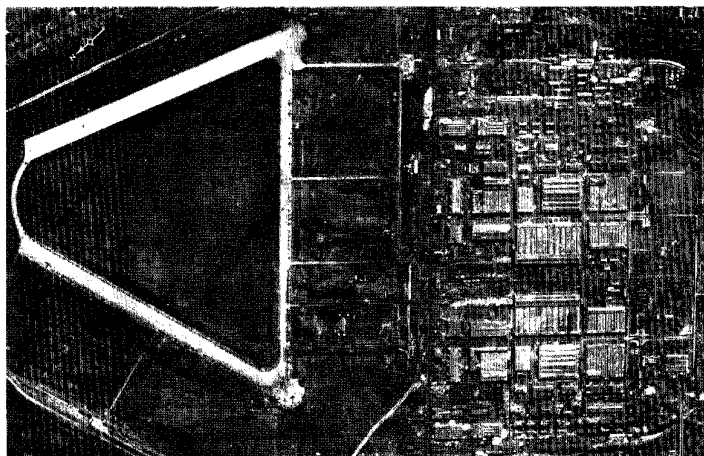


FIGURE 4. AIRFRAME PLANT NO 18, [] []

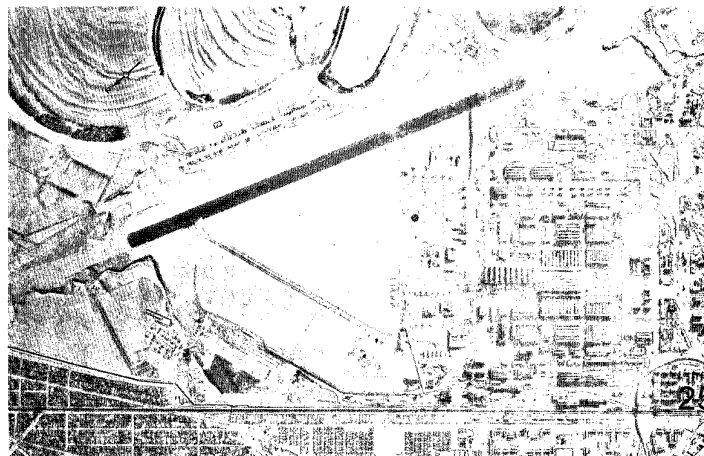


FIGURE 5. AIRFRAME PLANT NO 18, [] []

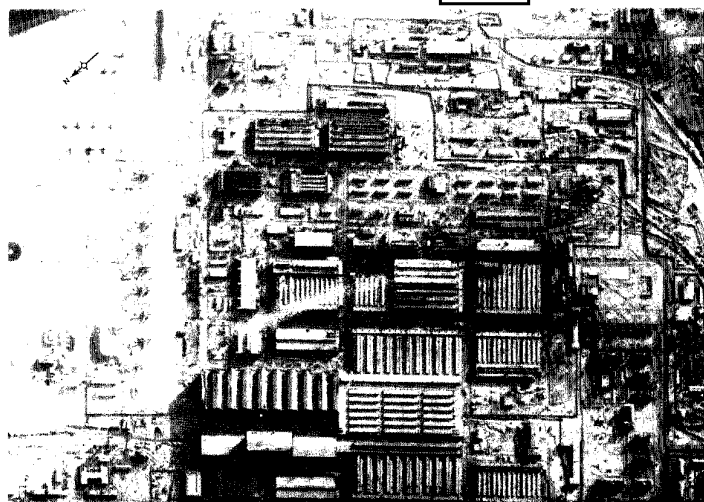


FIGURE 6. AIRFRAME PLANT NO 18, [] []

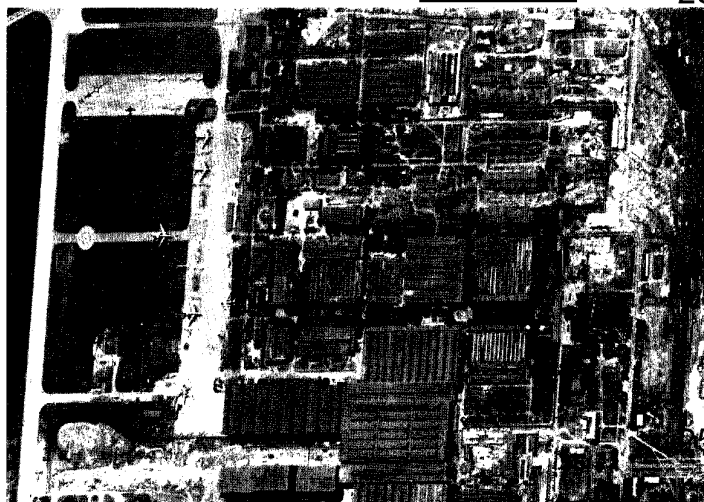


FIGURE 7. AIRFRAME PLANT NO 18, [] []

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east/west combination runway/taxiway measures approximately 5,300 by 270 feet and the northeast/southwest runway measures 9,270 by 330 feet. The surface of the northeast/southwest runway has undergone a resurfacing/recon-

ditioning and now appears to be complete. There are approximately 2,620,000 square feet of concrete taxiway and parking apron area in the vicinity of the field and Plant 18.

Aircraft observed at the airfield/plant area on [] included 3 BEAR B, 2 BEAR C/D, 2 CLEAT (with radomes), 1 CRATE, 6 CAB, 1 COLT, and 2 CREEK.

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Table 1. Description, Dimensions, Floorspace, and Cubic Feet of Numbered Structures at Airframe Plant No 18, Kuybyshev, USSR (item numbers are keyed to Figure 3)

Item	Description	Dimensions (ft) (see note)			Floorspace (sq ft)	Cubic Feet	Item	Description	Dimensions (ft) (see note)			Floorspace (sq ft)	Cubic Feet
		L	W	H					L	W	H		
1	Storage bldg/aircraft maintenance equipment bldg						42	Machine shop/workshop					
2	Storage bldg/aircraft maintenance equipment bldg						43	Subassembly bldg					
3	Storage bldg/aircraft maintenance equipment bldg						44	Subassembly/final assembly bldg					
4	Storage bldg/aircraft maintenance equipment bldg						45	Subassembly bldg					
5	Admin/engineering bldg (2 story)						46	Subassembly bldg/machine shop					
6	Machine shop/workshop						47	Transshipment warehouse					
7	Fuel control bldg						48	Foundry					
8	Warehouse						49	Storage/support bldg					
9	Fuel mixing/blending facility						50	Transshipment warehouse					
10	Storage/support bldg						51	Workshop					
11	Storage/support bldg						52	Warehouse					
12	Hangar/workshop						53	Warehouse					
13	Storage/support bldg						54	Warehouse					
14	Hangar/workshop						55	Warehouse					
15	Final assembly bldg						56	Warehouse					
16	Workshop/foundry						57	Warehouse					
17	Machine shop/workshop						58	Warehouse					
18	Workshop						59	Warehouse					
19	Warehouse						60	Storage/support bldg					
20	Warehouse						61	Poss machine shop/workshop					
21	Warehouse						62	Warehouse					
22	Storage/support bldg						63	Warehouse					
23	Storage/support bldg						64	Warehouse					
24	Machine shop/workshop						65	Storage/support bldg					
25	Machine shop/workshop						66	Warehouse					
26	Storage/support bldg						67	Admin bldg					
27	Storage/support bldg						68	Admin bldg					
28	Storage/support bldg						69	Storage bldg/garage					
29	Workshop						70	Admin bldg (3 story)					
30	Machine shop/workshop						71	Poss admin bldg u/c					
31	Warehouse						72	Poss admin bldg u/c					
32	Warehouse						73	Admin bldg (2 story)					
33	Warehouse						74	Admin/engineering bldg (4 story)					
34	Warehouse						75	Admin/engineering bldg (4 story)					
35	Warehouse						76	Admin/engineering bldg (5 story)					
36	Warehouse						77	Admin/engineering bldg (5 story)					
37	Workshop							Total floorspace & cubic feet of numbered buildings					
38	Compressor bldg							Total floorspace & cubic feet of other buildings					
39	Compressor bldg/workshop							Total floorspace & cubic feet of plant					
40	Forge/foundry												
41	Subassembly bldg/machine shop												

NOTE--With the exception of those heights marked with an asterisk (*), all measurements were calculated by NPIC/TID and are accurate to within 5 ft or $\pm 5\%$ horizontally ± 10 ft vertically. Measurements were derived from []

*Height calculated by CIA/IAD project analyst.

**Not included in floorspace total.

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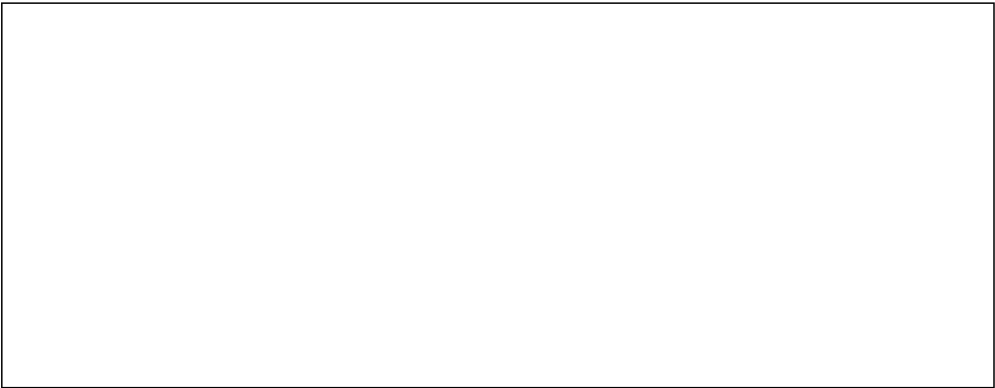
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REFERENCES



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MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENTS

1. NPIC. R-341/64, *Airframe Plants No 1 and 18, Kuybyshev, USSR*, May 64 (TOP SECRET)
3. ACIC. US Air Target Information Sheet, *Kuybyshev Airframe Plant "Lenin" or "Voroshilov" 18, USSR*, Sheet 165-0014 TIS, May 51 (SECRET)
4. CIA. PIR-39/64, *Airframe Plants No 1 and No 18, Kuybyshev, USSR*, Dec 64 (TOP SECRET)

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REQUIREMENT

CIA. C-RR6-83,650

PROJECT

31260/66 (partial answer)

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